

UNISONIC TECHNOLOGIES CO., LTD

SB3U40

Preliminary

DIODE

SOD-123S

3A SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The UTC **SB3U40** is a 3.0A schottky barrier rectifier, it uses UTC's advanced technology to provide the customers with sort, fast switching capability and low forward voltage drop, etc.

FEATURES

* Sort, fast switching capability

* Low forward voltage drop

ORDERING INFORMATION

Ordering Number	Package	Pin Assignment		Packing	
		1	2	Facking	
SB140G-CA2S-R	SOD-123S	К	А	Tape Reel	
Note: Pin Assignment: A: Anode K: Cathode					
(2)Package Type	(1) R: Tape Reel (2) CA2S: SOD-1 (3) G: Halogen Fi		Free		

MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified.)

PARAMETER	SYMBOL	RATINGS	UNIT
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Working Peak Reverse Voltage	V _{RWM}	40	V
DC Blocking Voltage	V _{RM}	40	V
RMS Reverse Voltage	V _{R(RMS)}	28	V
Average Rectified Output Current	lo	3	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	75	А
Operating Junction Temperature	ТJ	-65~+150	°C
Storage Temperature	T _{STG}	-65~+150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ _{JA}	175	°C/W

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	V _{(BR)R}	I _R =400μA	40			V
Forward Voltage Drop	V _F	I _F =0.5A, T _J =+25°C		0.30	0.34	V
		I _F =1.0A, T _J =+25°C		0.34	0.39	V
		I _F =3.0A, T _J =+25°C		0.42	0.47	V
Leakage Current (Note 2)	D	V _R =40V, T _J =+25°C		70	400	uA
		V _R =40V, T _J =+125°C		8	40	mA

Note: Short duration pulse test used to minimize self-heating effect.



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